

KT6CM- * 014 - 1 R 00 - B 1 *
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① **Series**

② **Y- Metric port connection ,**
 Omit for UNC

③ **Cam ring**

Volumetric displacement (cm³/rev)

003=10.8	017=58.3
005=17.2	020=63.8
006=21.3	022=70.3
008=26.4	025=79.3
010=34.1	028=88.8
012=37.1	031=100.0
014=46.0	

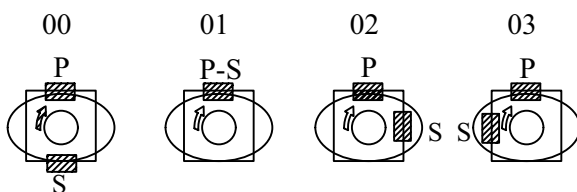
④ **Type of shaft**

1= keyed (SAE B)

2= keyed (no SAE)

3= Splined (SAE B)

4= Splined (SAE BB)



S=Suction port

P=Pressure port

⑤ **Direction of rotation**

(view on shaft end)

R=clockwise

L=counter-clockwise

⑥ **Porting combination**

00=standard

⑦ **Design letter**

⑧ **Seal class**

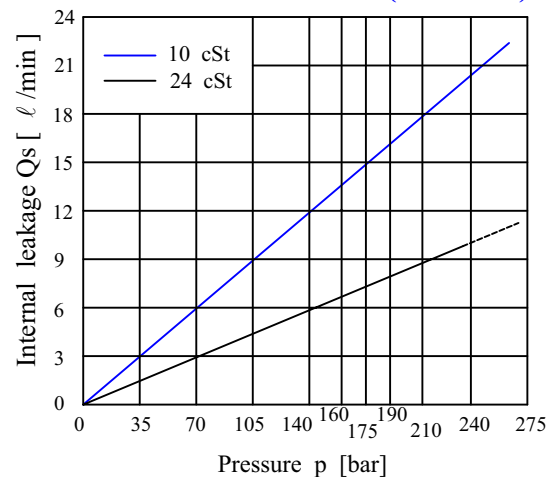
1 = S1 (for mineral oil)

4 = S4 (for fire resistant fluids)

5 = S5 (for mineral oil and fire
resistant fluids)

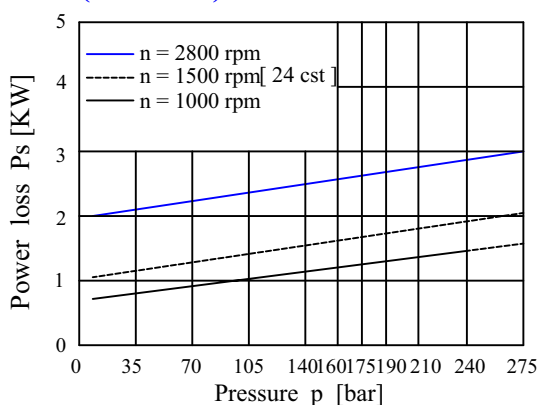
⑨ **Modifications**

INTERNAL LEAKAGE (TYPICAL)

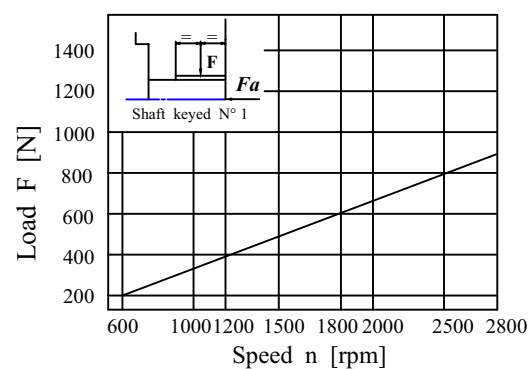


Do not operate pump more than 5 seconds at
any speed or viscosity if internal leakage is
more than 50 % of theoretical flow.

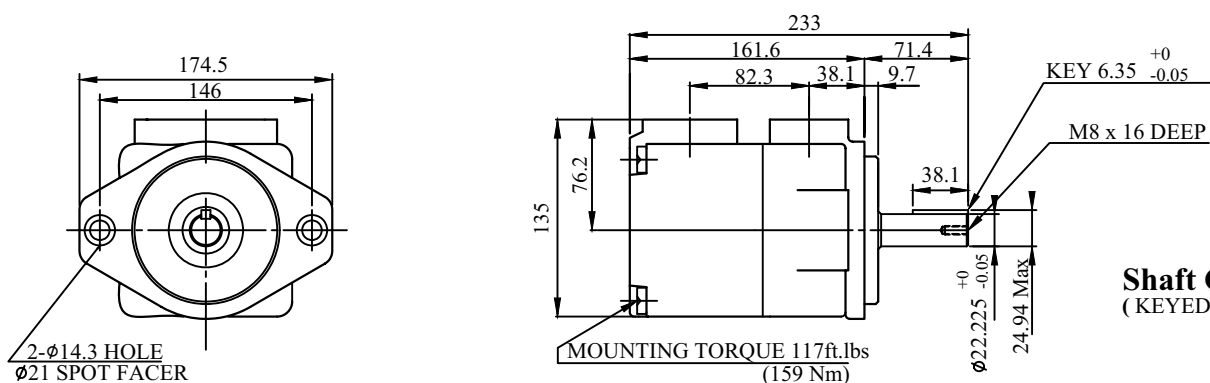
**HYDROMECHANICAL POWER LOSS
(TYPICAL)**



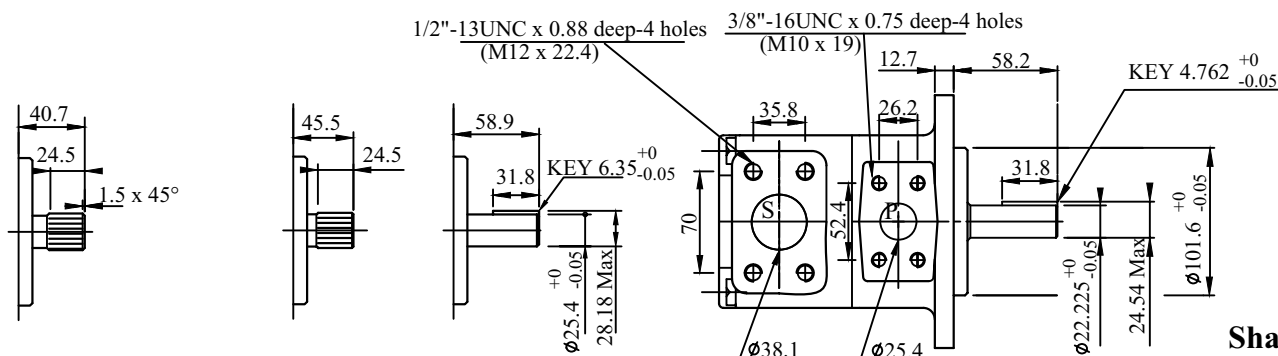
PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 800 N



Shaft Code 1
(KEYED SAE B)



Shaft code 3
SAE B splined shaft
Class 1-J498 b 16/32
d.p. -13 teeth 30°
pressure angle flat root
side fit

Shaft code 4
SAE BB splined shaft
Class 1-J498 16/32
d.p. -15 teeth 30°
pressure angle flat
root side fit

Shaft code 5

Shaft Code 2
(KEYED NO SAE)

Shaft torque limits(mℓ/rev x bar)		
Pump	Shaft	Vp x p max
KT6CM	1	16500
	2	14300
	3	20600
	4	21821

KT6CM OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Series	Volumetric Displacement Vp	Speed n [R.P.M]	Flow qve [ℓ/min]=1500 rpm			Input power P [KW]=1500 rpm			P Max Kg/cm ²	Max r.p.m
			p = 0 bar	p = 140 bar	p = 240 bar	p = 7 bar	p = 140 bar	p = 240 bar		
003	10.8mℓ/rev	1500	16.2	10.7	—	1.3	5.3	—	275	2800
005	17.2mℓ/rev	1500	25.8	20.3	15.8	1.4	7.5	12.2		
006	21.3mℓ/rev	1500	31.9	26.5	22.0	1.5	8.9	14.7		
008	26.4mℓ/rev	1500	39.6	34.1	29.6	1.6	10.7	17.7		
010	34.1mℓ/rev	1500	51.1	45.7	41.2	1.7	13.4	22.3		
012	37.1mℓ/rev	1500	55.6	50.2	45.7	1.7	14.4	24.1		
014	46.0mℓ/rev	1500	69.0	63.5	59.0	1.9	17.6	29.5		
017	58.3mℓ/rev	1500	87.4	82.0	77.5	2.1	21.9	36.9		
020	63.8mℓ/rev	1500	95.7	90.2	85.7	2.2	23.8	40.2		
022	70.3mℓ/rev	1500	105.4	100.0	95.5	2.3	26.1	44.1		
025 1)	79.3mℓ/rev	1500	118.9	113.5	109.0	2.5	29.2	49.5	210	2500
028 1)	88.8mℓ/rev	1500	133.2	127.7	124.5 2)	2.8	32.7	48.5 2)		
031 1)	100.0mℓ/rev	1500	150.0	144.5	141.3 2)	2.8	36.5	54.4 2)		

1) 025 - 028 - 031 = 2500 R.P.M.max

2) 028 - 031 = 210 bar max. int.

Min Speed : 600 rpm

KT6DM ***** **- B45 - 1 R 00 - B 1 ***
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① **Series**

② Y - Metric port connection (not for code "Q")
Omit for UNC

③ **Cam ring**

Volumetric displacement (cm³/rev)

B14=47.6	B35=111.0
B17=58.2	B38=120.3
B20=66.0	B42=136.0
B24=79.5	B45=145.7
B28=89.7	B50=158.0
B31=98.3	B61=190.5

④ **Type of shaft**

- 1 = keyed (SAE C)
- 2 = keyed (no SAE)
- 3 = splined (SAE C)
- 4 = splined (no SAE)

⑤ **Direction of rotation**
(view on shaft end)

R=clockwise

L=counter-clockwise

⑥ **Porting combination**

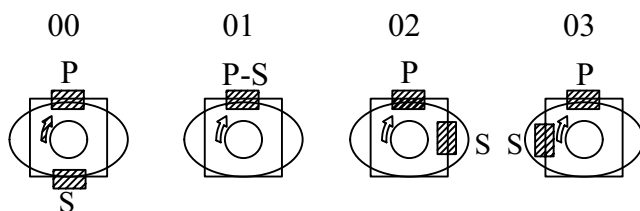
00=Standard

⑦ **Design letter**⑧ **Seal class**

1 = S1 (for mineral oil)

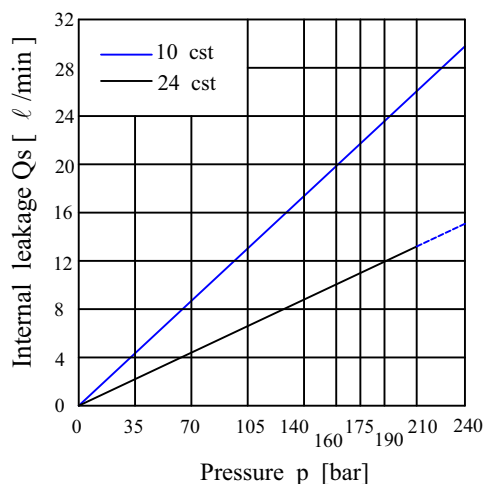
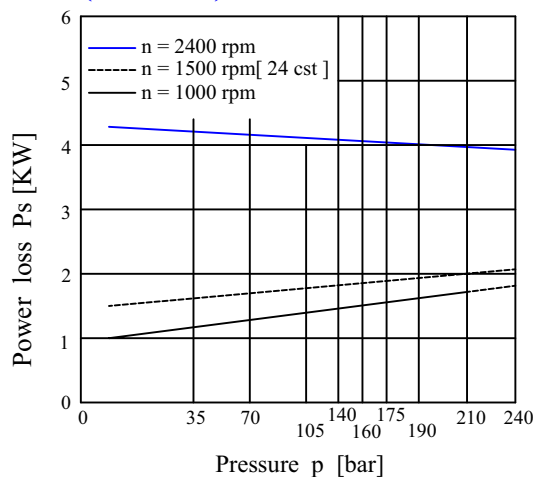
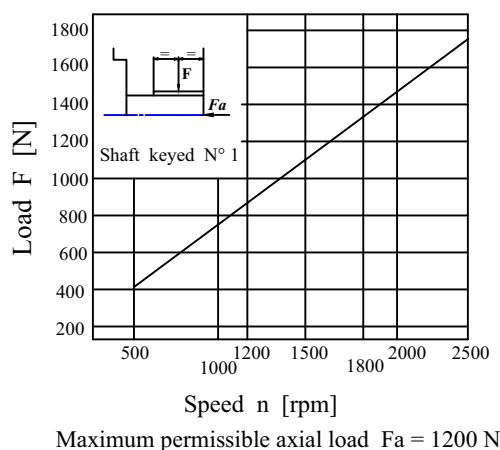
4 = S4 (for fire resistant fluids)

5 = S5 (for mineral oil and fire
resistant fluids)

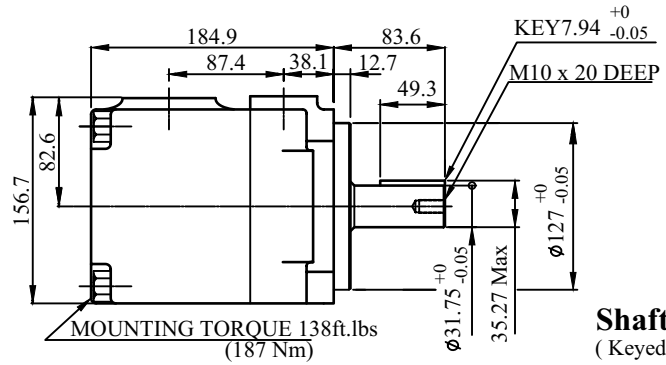
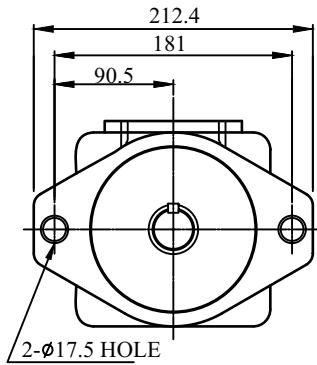
⑨ **Modifications**

S=Suction port

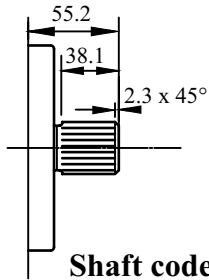
P=Pressure port

INTERNAL LEAKAGE (TYPICAL)**HYDROMECHANICAL POWER LOSS (TYPICAL)****PERMISSIBLE RADIAL LOAD**

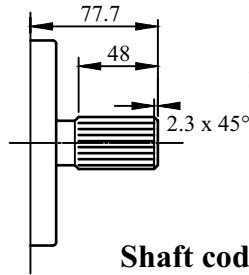
Maximum permissible axial load Fa = 1200 N



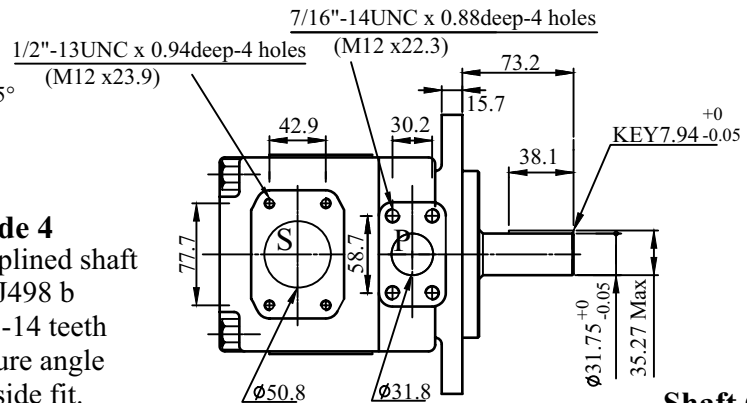
Shaft Code 1
(Keyed SAE C)



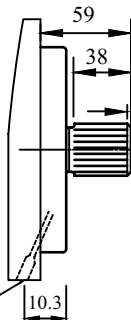
Shaft code 3
SAE C splined shaft
Class 1 - J498 b
12/24 dp. -14 teeth
30° pressure angle
Flat root side fit.



Shaft code 4
no SAE splined shaft
Class 1 - J498 b
12/24 dp. -14 teeth
30° pressure angle
Flat root side fit.



Shaft Code 2
(Keyed no SAE)



Drain hole between double shaft seals

KT6DP
Shaft code 3
no SAE splined shaft Class 1 - J498 b
12/24 dp. -14 teeth
30° pressure angle
Flat root side fit.

Shaft torque limits (ml/rev x bar)		
Pump	Shaft	Vp x p max
KT6DM	1	43283
	2	34590
	3	61200
	4	61200

OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Series	Volumetric Displacement Vp	Speed n [R.P.M]	Flow qve [ℓ/min] =1500 rpm			Input power P [KW]=1500 rpm			P Max Kg/cm ²	Max r.p.m
			p = 0 bar	p = 140 bar	p = 240 bar	p = 7 bar	p = 140 bar	p = 240 bar		
B14	47.6mℓ/rev	1500	71.4	62.1	55.9	2.3	18.5	30.6	240	2500
B17	58.2mℓ/rev	1500	87.3	78.0	71.8	2.5	22.2	37.0		
B20	66.0mℓ/rev	1500	99.0	89.7	83.5	2.8	24.9	41.7		
B24	79.5mℓ/rev	1500	119.3	110.0	103.8	3.0	29.6	49.8		
B28	89.7mℓ/rev	1500	134.5	125.2	119.0	3.2	33.2	55.9		
B31	98.3mℓ/rev	1500	147.5	138.1	131.9	3.3	36.2	61.0		
B35	111.0mℓ/rev	1500	166.5	157.2	151.0	3.5	40.7	68.7		
B38	120.3mℓ/rev	1500	180.4	171.1	164.9	3.7	43.9	74.3		
B42 1)	136.0mℓ/rev	1500	204.0	194.7	188.5	4.0	49.4	83.7	210	2200
B45 1)	145.7mℓ/rev	1500	218.5	209.2	203.0	4.1	52.8	89.5		
B50 1)	158.0mℓ/rev	1500	237.0	227.7	224.0 2)	4.4	57.0	85.0 2)		
B61 1)	190.5mℓ/rev	1500	285.7	278.0 3)	—	4.6	60.6 3)	—		

1) B42 - B45 - B50 - B61 = 2200 R.P.M.max 2) B50 = 210 bar max. int. 3) B60 = 120 bar max. int. Min Speed : 600 rpm

KT6EM ^{*} - **066** - **3** **R** **00** - **A** **1** ^{*}

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① **Series**

② **Y** - Metric port connection,
Omit for UNC

③ **Cam ring**

Volumetric displacement (cm³/rev)

042=132.3 062=196.7

045=142.4 066=213.3

050=158.5 072=227.1

052=164.8 085=269.8

057=180.7

④ **Type of shaft**

1 = keyed (SAE CC)

2 = keyed (no SAE)

3 = splined (SAE C)

4 = splined (SAE CC)

⑤ **Direction of rotation**
(view on shaft end)

R=clockwise

L=counter-clockwise

⑥ **Porting combination**

00=standard

⑦ **Design letter**

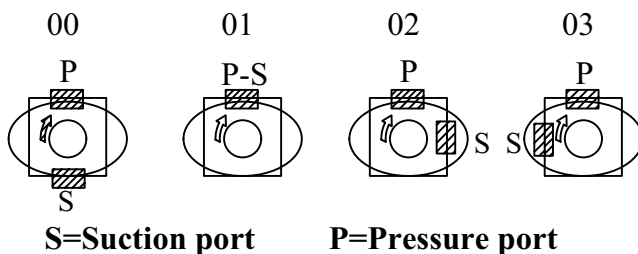
⑧ **Seal class**

1=S1 (for mineral oil)

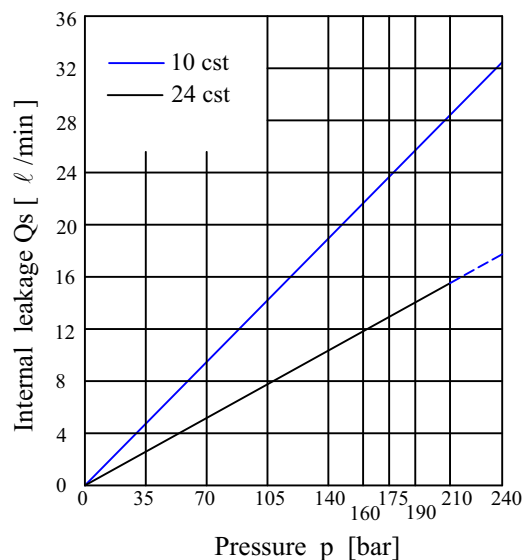
4=S4 (for fire resistant fluids)

5=S5 (for mineral oil and fire
resistant fluids)

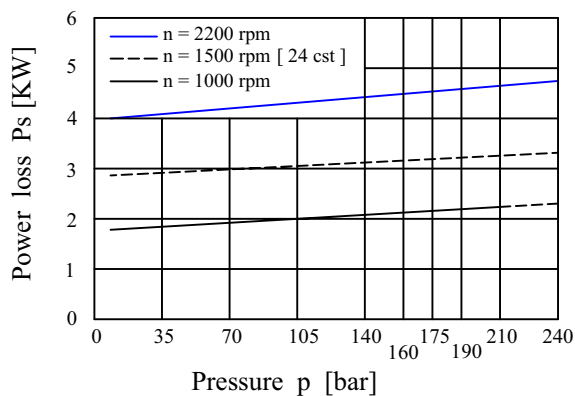
⑨ **Modifications**



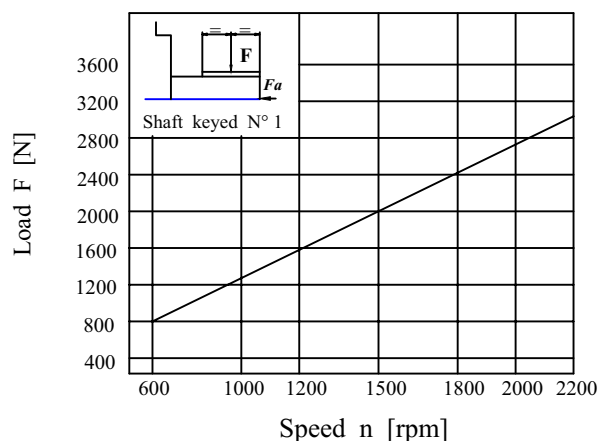
INTERNAL LEAKAGE (TYPICAL)



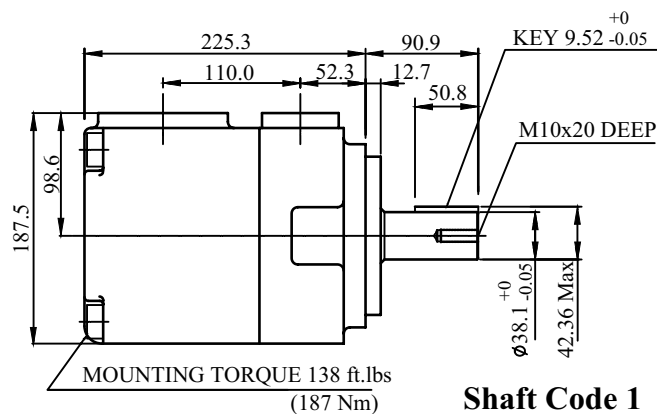
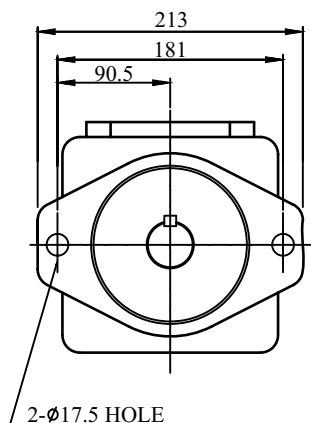
HYDROMECHANICAL POWER LOSS (TYPICAL)



PERMISSIBLE RADIAL LOAD

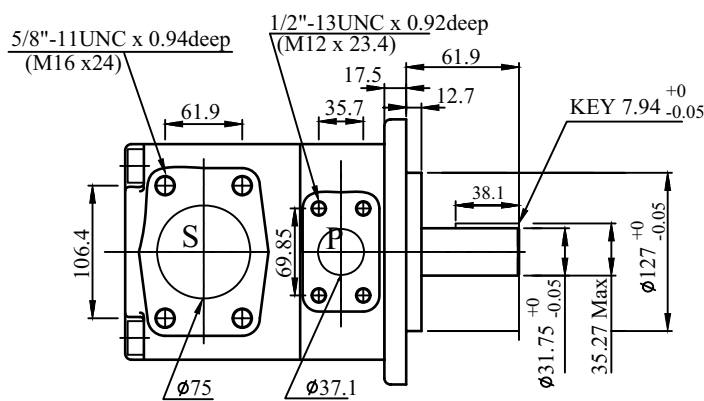
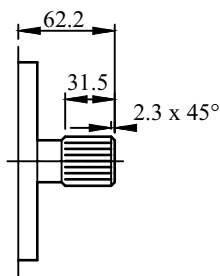
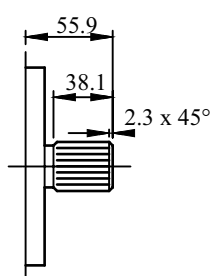


Maximum permissible axial load Fa = 2000 N



Shaft Code 1

(Keyed SAE CC)



Shaft code 3

SAE C Splined shaft
class 1 - J498b 12/24
dp. -14 teeth 30°
pressure angle. Flat root
side fit.

Shaft code 4

SAE CC Splined shaft
class 1 - J498b 12/24
dp. -17 teeth 30°
pressure angle. Flat root
side fit.

Shaft Code 2

(Keyed no SAE)

shaft torque limits(mℓ/rev x bar)		
Pump	Shaft	Vp x P max.
KT6EM	1	54555
	2	34590
	3	61200
	4	61200

KT6EM OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Series	Volumetric Displacement Vp	Speed n [R.P.M]	Flow qve [ℓ/min]			Input power P [KW]			P Max Kg/cm ²	Max r.p.m
			p = 0 bar	p =140 bar	p =240 bar	p =7 bar	p =140 bar	p =240 bar		
042	132.3mℓ/rev	1500	198.5	188.5	181.3	5.2	49.4	82.6	240	2200
045	142.4mℓ/rev	1500	213.6	203.6	196.5	5.4	52.9	88.7		
050	158.5mℓ/rev	1500	237.7	227.7	220.6	5.7	58.5	98.3		
052	164.8mℓ/rev	1500	247.2	237.2	230.1	5.8	60.8	102.1		
057	180.7mℓ/rev	1500	271.1	261.1	254.0	6.1	66.4	106.9		
062	196.7mℓ/rev	1500	295.0	285.0	277.9	6.4	71.9	121.3		
066	213.3mℓ/rev	1500	319.9	309.9	302.8	6.7	77.7	131.2		
072	227.1mℓ/rev	1500	340.6	330.6	323.5	6.9	82.6	139.5		
085 ¹⁾	269.8mℓ/rev	1500	404.7 ²⁾	397.7	—	7.3 ²⁾	65.3 ²⁾	—	90	2000

1) 085 = 2000 rpm max.

2) 085 = 75 bar cont.

085=90bar max. int

Min Speed : 600 rpm